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Printed Pages : 3

TES-101

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 0099**

Roll No.

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**B. Tech.**

**(SEM. I) EXAMINATION, 2007-08**

**ENVIRONMENTAL STUDIES**

*Time : 3 Hours]*

*[Total Marks : 100*

*Note : Attempt all the questions.*

1 Attempt any **four** parts of the following :

- (a) How would environmental awareness help to protect our environment ?
- (b) How would you broadly divide the major layer or regions of the atmosphere ? State their respective altitudes and temperature ranges.
- (c) Discuss with the help of the case study, how big dam is affected forest and the tribal ?
- (d) Discuss the environmental effects of extracting and using mineral resources.
- (e) Briefly discuss the droughts and floods with respect to their occurrence and impacts.
- (f) What is nuclear energy ? Discuss its two types.





- 2 Attempt any **four** parts of the following :
- (a) Define Ecosystem. Give an account of the structure and function of an ecosystem.
  - (b) "Fuel powered ecosystems are man's wealth generating and also pollution generating system". Justify.
  - (c) Define ecological succession. Give an account of general process of succession in nature.
  - (d) What are the essentials of a desert ecosystem ?
  - (e) What do you mean by Thermocline and Oligotrophic lakes ?
  - (f) Write a note on tropical rain forest and Savannas.

- 3 Attempt any **two** parts of the following :
- (a) What do you understand by the term "Biodiversity"? Name and discuss the three hierarchical levels to study the concept of biodiversity.
  - (b) What do you understand by 'Conservation of Biodiversity'? State and explain the two basic approaches to the wild life conservation.
  - (c) Define threats of Biodiversity and also explain endangered, threatened and endemic species of India.

- 4 Attempt any **two** parts of the following :
- (a) Enumerate the various natural mechanisms at work in the atmosphere. Which is the most important particulate removal mechanism ?
  - (b) Briefly discuss the compositions of domestic and industrial waste waters. What are the basic differences between them ?
  - (c) What is recycling ? Discuss its importance, by giving suitable examples, in solid waste management. Also give the advantages of recycling and waste utilization.

- 5 Attempt any **four** parts of the following :
- (a) What is rainwater harvesting ? What are the purposes served by it ?
  - (b) Discuss the natural formation and occurrence of ozone in the stratosphere.
  - (c) What is meant by 'population explosion'? Discuss the Indian scenario.
  - (d) What are the objective and elements of value education ? How can the same be achieved ?
  - (e) Discuss El-Nino Phenomenon and its effects at global scale.
  - (f) How can we use IT in rural areas ? Explain.